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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696

7590

10/19/2010

QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 EXAMINER

RASHID, DAVID

ART UNIT PAPER NUMBER

2624

DATE MAILED: 10/19/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,285	03/16/2004	Vijayalakshmi R. Raveendran	030065	3631

TITLE OF INVENTION: METHOD AND APPARATUS FOR IMPROVING VIDEO QUALITY OF LOW BIT-RATE VIDEO

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/19/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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QUALCOMM 5775 MOREHO SAN DIEGO, C.		D	I her State addr trans	eby certify that thi s Postal Service w essed to the Mail mitted to the USP1	s Fee(s ith suf Stop O (57	of Maning of Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	inission good deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/802,285	03/16/2004	V	ijayalakshmi R. Raveendra	n	030065 3631		
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	NG VIDEO QUALITY OF	PREV. PAID ISSUE		TOTAL FEE(S) DUE	DATE DUE
					FEE		
nonprovisional	NO	\$1510	\$300	\$0		\$1810	01/19/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
RASHID,	, DAVID ence address or indication	2624	382-248000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA	'Indication form ed. Use of a Customer A TO BE PRINTED ON The field below, no assignee	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be particularly from the particular of the par	ely, firm (having as a gent) and the name neys or agents. If rorinted. e) tent. If an assigne	memb es of u no nam	er a 2 o to e is 3	ocument has been filed for
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a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long				
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This collection of inform an application. Confident submitting the completed his form and/or suggesting V450. Alexandria, V	ation is required by 37 C tiality is governed by 35 I application form to the ions for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or re 1.14. This collection is esti depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 n dual case. Any co r, U.S. Patent and DTHIS ADDRESS	ne publ ninutes mment Fraden . SENI	ic which is to file (and to complete, including s on the amount of times ark Office, U.S. Depo D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/802,285	03/16/2004	Vijayalakshmi R. Raveendran	030065 3631	
23696 75	590 10/19/2010		EXAM	IINER
QUALCOMM INCORPORATED			RASHID	, DAVID
5775 MOREHOUS			ART UNIT	PAPER NUMBER
SAN DIEGO, CA	92121		2624	
			DATE MAILED: 10/19/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 427 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 427 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/802,285	RAVEENDRAN ET A	۸I		
Notice of Allowability	Examiner	Art Unit			
	DAVID P. RASHID	2624			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate communication is seen and MPEP 1308.	th the correspondence addre this application. If not include inication will be mailed in due of	d course. THIS		
1. This communication is responsive to the amendment filed	<u>10/5/2010</u> .				
2. \boxtimes The allowed claim(s) is/are $\underline{1-3,5,7-15,18-21,31-35,38-45,4}$	17 and 49-54.				
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Applicatio	n No	ion from the		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF		
5. \square CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)		formal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date			
3. Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's	Amendment/Comment			
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allov	vance		
/David P Rashid/					
Examiner, Art Unit 2624					

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

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Amendments & Claim Status

- [1] This "Examiner's Statement of Reasons for Allowance" is responsive to "Amendment" received Oct. 5, 2010. Claims 1-3, 5, 7-15, 18-21, 31-35, 38-45, 47, and 49-54 remain pending.
- In response to Amendment at 12-15, rejected Claims 43-45, 47, and 49-54 under § 101 as directed to non-statutory subject matter; rejected Claims 1, 3, 5, 7, 8, 13, 15, 31, 32, 43, 45, 47, 49 and 50 under 35 U.S.C. § 103(a) as being unpatentable over *Frishman et al.*, U.S. Pub. No. 2003/0044080 ("Frishman") in view of *Lee et al.*, U.S. Pat. No. 6,539,060 ("Lee"); and rejected Claim 33 under 35 U.S.C. § 103(a) as being unpatentable over Frishman in view of Lee, and in further view of *Thyagarajan et al.*, U.S. Pat. No. 6,529,634 ("Thyagarajan") are withdrawn.

Remarks Persuasive

Applicant argues that even the largest ROI is much smaller than the full block-size, such that any ROI is a subset or subdivision of the full block, and thus Frishman does not disclose or suggest "using a first deblocking filter on one or more edge pixels of the two neighboring blocks if only one of the two neighboring blocks is subdivided" as recited in Claim 1. All ROIs appear to be subdivisions of the 8 x 8 blocks. Amendment 13 and 14.

Allowable Subject Matter

[3] Claims 1-3, 5, 7-15, 18-21, 31-35, 38-45, 47, and 49-54 allowed.

Reasons for Allowance

[4] The following is an examiner's statement of reasons for allowance:

Application/Control Number: 10/802,285

Art Unit: 2624

Regarding Claims 1, 13, and 43, see Office Action at p. 7, Apr. 15, 2009 (pertaining to allowability of Claims 6, 17, and 48 in the Office Action).

Regarding **Claim 31**, see Examiner's Statement of Reasons for Allowance at p. 3, Jan. 13, 2010.

Regarding Claim 34, see Office Action at p. 7, Apr. 15, 2009.

[5] Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

[6] Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID P. RASHID whose telephone number is (571)270-1578 and fax number (571)270-2578. The examiner can normally be reached Monday - Friday 7:30 - 17:00 ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/<u>Davíd P. Rashíd</u>/ Examiner, Art Unit 2624 Page 3

David P Rashid Examiner Art Unit 26244